

Perfecto T Range

Turbine oils

Description

The Perfecto T Range of turbine oils are formulated from highly refined base stocks which exhibit excellent demulsibility, anti-foam and air release properties.

Their oxidative stability and corrosion protection property are further enhanced by the inclusion of specially selected additives.

Application

Perfecto T oils are primarily intended for the lubrication of gas and steam turbines where the base oils used have been selected to give the requisite water separation characteristics as well as providing resistance to foaming and air entrainment, all essential properties for this demanding application.

Perfecto T 100 meets the requirements set by most manufacturers of marine steam turbine propulsion machinery. It passes the IP/ASTM rust prevention test and has good oxidation stability measured by the IP/ASTM turbine oxidation stability test (TOST).

Perfecto T 68 meets the lower viscosity requirement favoured by some manufacturers of marine turbine propulsion machinery and is predominantly used for the lubrication of turbine driven marine auxiliary equipment.

Perfecto T 32 is a light turbine oil for applications in small industrial gas turbines and LNG carriers. It is also used in various ancillary systems requiring rust and oxidation inhibited mineral oil to ISO VG 32.

Features / Benefits

- Excellent oxidation stability provides trouble free operation for extended periods in aggressive environments where heat, air, moisture and metals can all contribute to oil degradation.
- Good foam and air release properties means the product meets the requirements of most turbine builders.
- Excellent water separation and corrosion inhibition means reduced down time through prolonged lubricant life and increased equipment reliability.

Approval Status

Approved by or meet the specifications of major turbine manufacturers such as:

- Alstom.
- Siemens.
- General Electric.
- ABB.
- Solar Gas Turbines.
- Ingersol Rand.
- Rolls-Royce.
- Atlas Copco.
- MAN.
- Wier Pumps Ltd.

Technical Data

| Name | Method | Units | Perfecto T 32 | Perfecto T 46 | Perfecto T 68 | Perfecto T 100 |
|-----------------------------|--------------------|------------|---------------|---------------|---------------|----------------|
| Product Code | | | 34001 | 34026 | 34041 | 34054 |
| ISO Grade | | | 32 | 46 | 68 | 100 |
| Density @ 15°C | g/ml | ASTM D4052 | 0.87 | 0.88 | 0.88 | 0.88 |
| Kinematic Viscosity @ 40°C | mm ² /s | ASTM D445 | 32 | 46 | 68 | 100 |
| Kinematic Viscosity @ 100°C | mm ² /s | ASTM D445 | 5.3 | 6.7 | 8.6 | 10.8 |
| Viscosity Index | | ASTM D2270 | 102 | 102 | 102 | 97 |
| Flash Point, PMCC | °C | ASTM D93 | >200 | >200 | >200 | >200 |
| Pour Point | °C | ASTM D97 | -12 | -12 | -12 | -12 |
| Neutralisation number | mgKOH/g | | <0.2 | <0.2 | <0.2 | <0.2 |

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

Care and Handling

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Packaging and Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60C, exposed to hot sun or freezing conditions.

Perfecto T Range

31 Jan 2012

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Marine, Technology Centre, Whitchurch Hill, Pangbourne, Reading RG8 7QR, United Kingdom

www.castrolmarine.com

